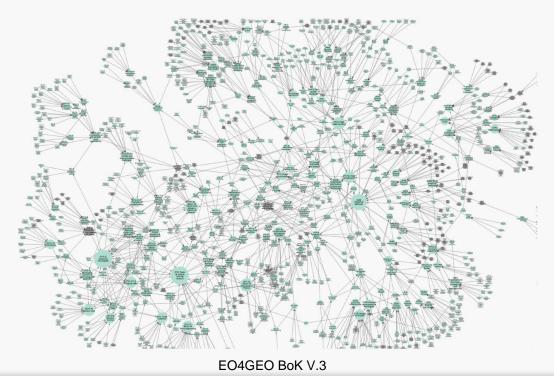




What is a Body of Knowledge (BoK)?

A formal description of a professional domain represented by a complete set of concepts in a structured way, including the theories, methods and technologies.

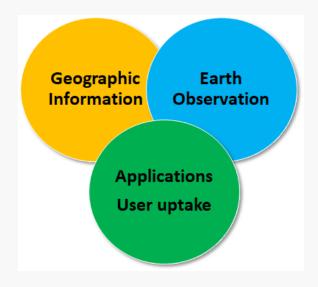






EO4GEO Body of Knowledge

- Builds on previous initiatives
 - focused mainly on Geographic Information
 - with limited number of Earth Observation concepts
 - too static and too academic
- Addition of detailed EO part
 - Covering different aspects of Earth Observation
- Addition of market oriented perspective
 - focus on skills and user uptake



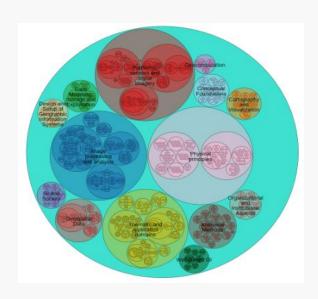
Three main knowledge areas in the EO4GEO BoK





EO4GEO Body of Knowledge

- Builds on previous initiatives
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 - too static and too academic
- Addition of detailed EO part
 - covering different aspects of Earth Observation
- Addition of market oriented perspective
 - focus on skills and user uptake
- Consists of approx. 1000 concepts developed by the experts
- Publicly available from tomorrow October 21st!



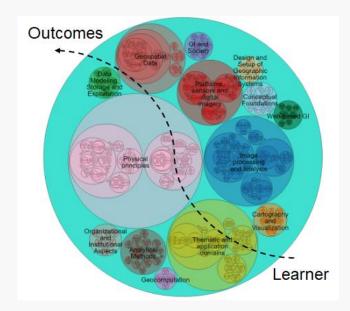
EO4GEO BoK http://www.eo4geo.eu/bok/





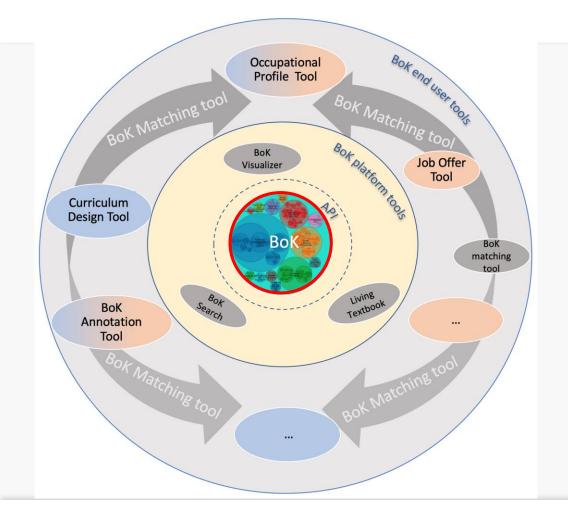
Why Bok is important for a sector?

- → Reach collection of knowledge, skills and competences required
- → Foundation for developing the curriculum programs and vocational training
 - Curriculum design
 - Skills upscaling
- → Supports workforce recruitment and job assessments
 - ◆ Employee screening
 - Defining occupational profiles
 - ◆ Job offer description
 - **◆** ...







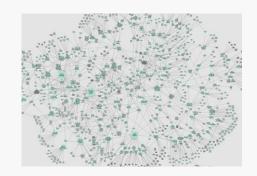








Editing and visualizing the EO4GEO Body of Knowledge



Rob Lemmens

(<u>link</u> to watch the recorded presentation)

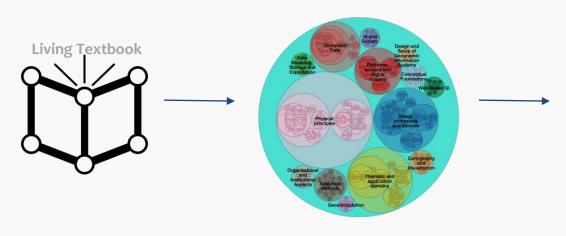


University of Twente
Faculty of Geo-Information Science and
Earth Observation (ITC)





eo4geoplatform



http://bok.eo4geo.eu



Occupational Profile Tool Job Offer Tool Curriculum Design Tool BoK Matching Tool

. . .

http://eo4geo.uji.es









Define generic, recurring prototypical **job descriptions**



Companies and public institutions



Have a catalogue of GI & EO Occupational Profiles based on the **BoK**

Explore most demanded Knowledge and Skills

http://eo4geo.uji.es/opt







Define **job offers** based on occupational profiles



HR offices from private companies, public institutions, or academia



Job and Training offers based on the **BoK**Explore **most demanded** Knowledge and Skills

http://eo4geo.uji.es/jot





Occupational Profile & Job Offer

Knowledge - BoK concepts

[PS4] Satellite and Airborne Sensors and Missions Databases

[TA7-4] Image processing (value) chain

[IP5] Infrastructure

[WB] Web-based GI

[DA] Design and Setup of Geographic Information Systems

[OI4-5b] SDI performance measurement and assessment

[OI3b] Spatial Data Infrastructures

[OI3] Geospatial data sharing

Skills - BoK concepts skills

[OI4-5b] Compare different frameworks for assessing Spatial Data Infrastructures

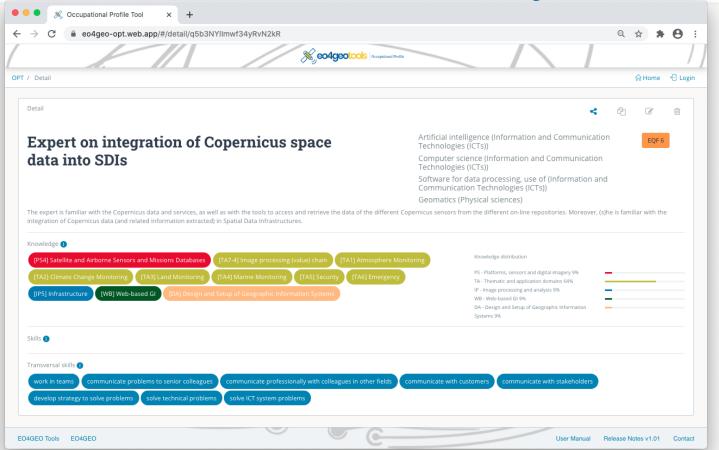
[OI4-5b] Design an SDI assessment framework and methodology for assessing and evaluating an SDI

[OI4-5b] Develop a strategy to improve the performance of an SDI initiative

[OI4-5b] Explain the results of an SDI assessment













Define educational offers based on the BoK





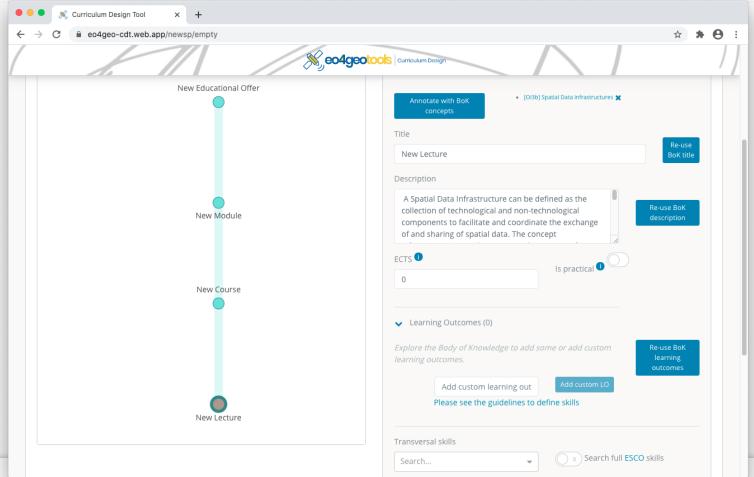
Academia, training providers



Common vocabulary for knowledge and skills (**BoK**) Explore **most offered** Knowledge and Skills

http://eo4geo.uji.es/cdt

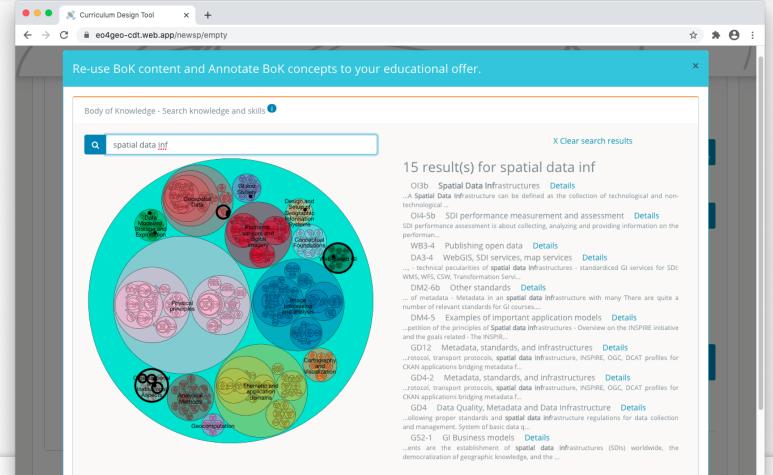






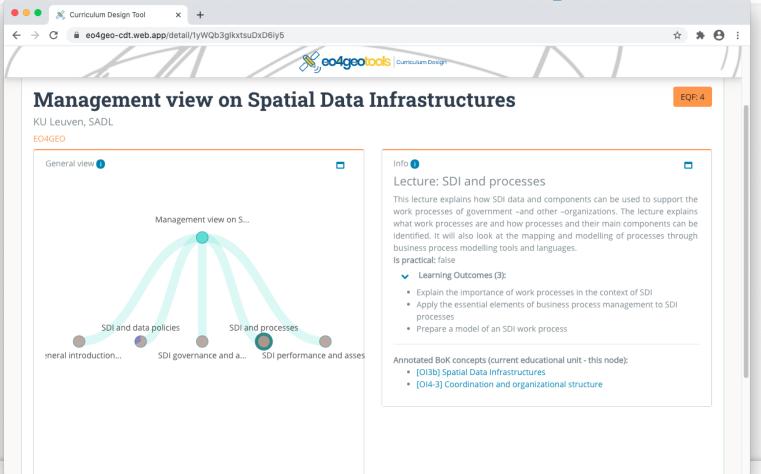
Next >>

















Compare any **BoK annotated** resource





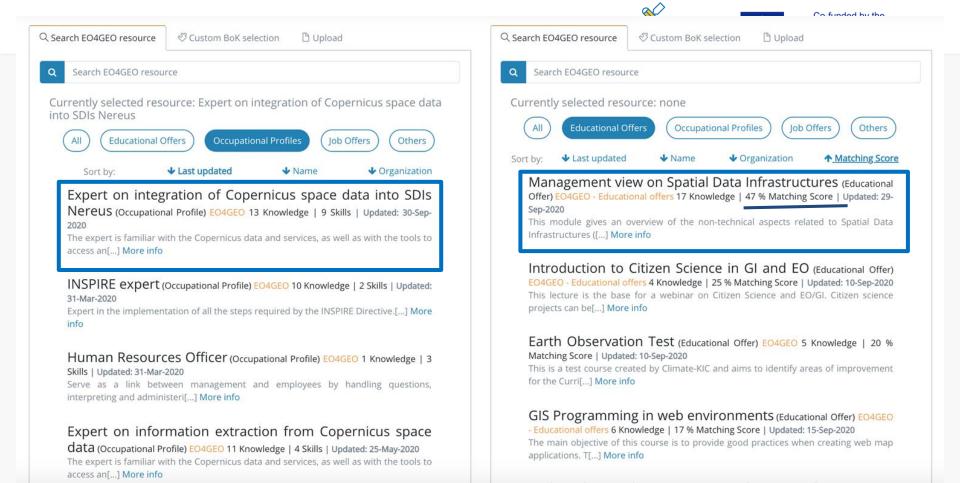
All types of audiences

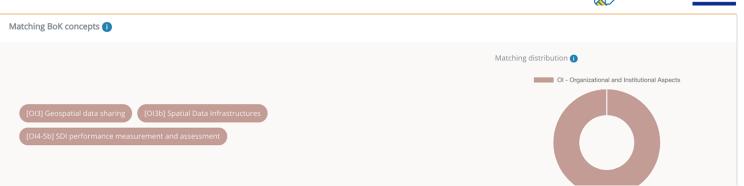


Find best matching job offers to an annotated CV **Rank** educational offers according to an occupational profile

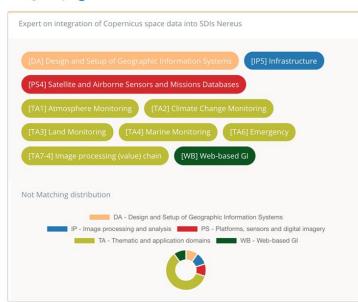
Many more!

https://eo4geo-bmt.web.app/





Differing concepts (1)









Planned training actions for testing and validation of the EO4GEO strategy

Target groups:

Students
Academic teachers
EO/GI data scientists
Technicians/assistants

City planners

Environmental officers/managers

Green planners

Climate adaption coordinators

Municipal and Regional authorities

Actions: Workshops, Summer school, Webinars and Thesis.

Providers: Authorities, Industry/SMEs and Academia/VET

Training actions





Real-world problems are identified and described, which will be solved by using GI and EO techniques during the learning process.

Integrated applications

- Landslides & Cultural Heritage sites
- · Agro monitoring system to support regional decision-making
- · Land use change monitoring
- Landslides documentation
- Object recognition through Machine Learning

Smart cities

- Heat islands & city planning
- Urban green structures & quality of life/ecosystem services

Climate change

- Air quality monitoring & management
- CO₂ budgets & solar potential maps at municipal level
- Early warning for disease epidemics at regional level
- Urban greenery management

Starting from December 2020, different training actions will be implemented. More in EO4GEO website. We invite you to participate!